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(54) FLEXIBLE WAVEGUIDE

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(57) Abstract:

PURPOSE: To obtain a flexible waveguide which has a superior fatigue drag by forming a conduit as an electric wave carrier path with a core material which has a metallic layer on the surface and is elastic and a dielectric.

CONSTITUTION: Titled flexible waveguide consists of the core material 4 having an external diameter as large as the size of the conduit, the metallic layer 5 covering the external surface of the core material 4, and flanges 1 formed at both ends. This core material 4 is made of the resin material which has excellent elasticity and is the dielectric material. The external surface of this core material 4 is covered with the metallic layer 5 as an electric wave reflecting surface by vapor deposition, etc., and the flanges 1 are fixed to the end parts by a press-contacting method, etc. Therefore, the conduit which serves as the electric wave carrier path is formed of the core material 4 which is the dielectric while the metallic layer 5 forms the reflecting surface. Consequently, the flexible waveguide which has the superior fatigue drag is obtained.

